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Welcome to STN International! Enter x:x
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LOGINID: ssspta1611sxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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Welcome to STN International
NEWS 1
                 Web Page URLs for STN Seminar Schedule - N. America
NEWS
                 "Ask CAS" for self-help around the clock
      2
NEWS
         JAN 27
                 Source of Registration (SR) information in REGISTRY updated
                 and searchable
NEWS
         JAN 27
                 A new search aid, the Company Name Thesaurus, available in
                 CA/CAplus
NEWS 5
                 German (DE) application and patent publication number format
         FEB 05
                 changes
NEWS 6
         MAR 03
                 MEDLINE and LMEDLINE reloaded
NEWS 7
         MAR 03
                 MEDLINE file segment of TOXCENTER reloaded
NEWS 8
         MAR 03 FRANCEPAT now available on STN
NEWS 9
         MAR 29
                 Pharmaceutical Substances (PS) now available on STN
NEWS 10
         MAR 29
                 WPIFV now available on STN
NEWS 11
         MAR 29
                 New monthly current-awareness alert (SDI) frequency in RAPRA
NEWS 12
         APR 26
                 PROMT: New display field available
NEWS 13
         APR 26
                 IFIPAT/IFIUDB/IFICDB: New super search and display field
                 available
         APR 26
NEWS 14
                 LITALERT now available on STN
NEWS 15
                 NLDB: New search and display fields available
         APR 27
NEWS 16
         May 10
                 PROUSDDR now available on STN
NEWS 17
         May 19
                 PROUSDDR: One FREE connect hour, per account, in both May
                 and June 2004
NEWS 18
         May 12
                 EXTEND option available in structure searching
NEWS 19
                 Polymer links for the POLYLINK command completed in REGISTRY
         May 12
NEWS 20
                 FRFULL now available on STN
         May 17
NEWS 21
         May 27
                 STN User Update to be held June 7 and June 8 at the SLA 2004
                 Conference
NEWS 22
         May 27
                 New UPM (Update Code Maximum) field for more efficient patent
                 SDIs in CAplus
NEWS 23
         May 27
                 CAplus super roles and document types searchable in REGISTRY
NEWS 24
         May 27
                 Explore APOLLIT with free connect time in June 2004
NEWS EXPRESS
              MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
NEWS HOURS
              STN Operating Hours Plus Help Desk Availability
NEWS INTER
              General Internet Information
NEWS LOGIN
              Welcome Banner and News Items
              Direct Dial and Telecommunication Network Access to STN
NEWS PHONE
NEWS WWW
              CAS World Wide Web Site (general information)
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Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:49:30 ON 09 JUN 2004

=> file reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:49:42 ON 09 JUN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7 DICTIONARY FILE UPDATES: 7 JUN 2004 HIGHEST RN 690625-61-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading c:\program files\stnexp\queries\10142325.9

L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS L1 STR

$$\begin{array}{c} \operatorname{G2} \\ \\ \operatorname{G4} \\ \\ \operatorname{CH2} \\ \operatorname{O} \\ \end{array}$$

G1 Cb,Cy,Hy
G2 X,Ak,CN,NO2
G3 O,S,P,NH,NH2,NH3
G4 H,Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full FULL SEARCH INITIATED 11:50:07 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 99627 TO ITERATE

100.0% PROCESSED 99627 ITERATIONS SEARCH TIME: 00.00.03

2 ANSWERS

L2

2 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 155.42 155.63

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:50:15 ON 09 JUN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 9 Jun 2004 VOL 140 ISS 24 FILE LAST UPDATED: 8 Jun 2004 (20040608/ED)

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101542325.9
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=> s 12

Page 4

4,4-dimethyl- (9CI) (CA INDEX NAME)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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2 L2
=> s 13 fbib hitstr abs total
MISSING OPERATOR L3 FBIB
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.
=> d 13 fbib hitstr abs total
L3
     ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN
     2003:570702 CAPLUS
     139:96696
DN
TI
     Fungicidal biphenyl-substituted cyclic ketoenols
     Fischer, Reiner; Ullmann, Astrid; Bretschneider, Thomas; Mauler-Machnik,
IN
     Astrid; Kuck, Karl-Heinz; Wachendorff-Neumann, Ulrike
PA
     Bayer CropScience AG, Germany
SO
     PCT Int. Appl., 123 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
    German
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
                                          -----
                     - - - -
                           -----
                                         WO 2003-EP26
PI
     WO 2003059065
                     A1
                           20030724
                                                           20030103
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         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
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                                           DE 2002-10201239A 20020115
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OS
    MARPAT 139:96696
ΙT
     244159-34-0 560102-25-2
     RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
        (fungicide)
RN
     244159-34-0 CAPLUS
     2-Cyclohexen-1-one, 2-(4'-chloro-4-methyl[1,1'-biphenyl]-3-yl)-3-hydroxy-
CN
```

RN 560102-25-2 CAPLUS

CN 2-Cyclohexen-1-one, 2-(4'-chloro-4,6-dimethyl[1,1'-biphenyl]-3-yl)-3-hydroxy-4,4-dimethyl- (9CI) (CA INDEX NAME)

GΙ

$$Q^2$$
 OG A B O

The invention relates to the fungicidal use of the title compds. I [X = halo, (halo)alkyl, (halo)alkoxy, NO2, CN; Z = (un)substituted aryl; W, Y = H or X; CKE = Q1, Q2, etc.; A = H, (halo)alkyl, (halo)alkenyl, etc.; B = H or alkyl; ACB = (un)substituted ring; D = H, (un)substituted cycloalkyl, etc.; ACND = (un)substituted ring; G = H, C(O)R1, C(L)MR2, etc.; R1 = (halo)alkyl, (halo)alkenyl, (un)substituted cycloalkyl, Ph, etc.; R2 = (halo)alkyl, (halo)alkenyl, (halo)alkoxyalkyl, (halo)polyalkoxyalkyl, (un)substituted cycloalkyl Ph or benzyl; L, M = O or S].

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
L3
     1999:626173 CAPLUS
ΑN
DN
     131:243180
ΤI
     Preparation of arylketoenols as pesticides and herbicides.
     Lieb, Folker; Fischer, Reiner; Graff, Alan; Schneider, Udo; Bretschneider,
IN
     Thomas; Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark Wilhelm;
     Dollinger, Markus; Wetcholowsky, Ingo; Myers, Randy Allen
     Bayer Aktiengesellschaft, Germany
PΑ
SO
     PCT Int. Appl., 267 pp.
     CODEN: PIXXD2
DT
     Patent
T<sub>1</sub>A
     German
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
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PΙ
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             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
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                                           EP 1999-915653
                                                           19990318
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     US 6458965
                       В1
                            20021001
                                           US 2001-646722
                                                            20010102
                                           DE 1998-19813354A 19980326
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                                           DE 1998-19813354A 19980326
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                                           US 2001-646722 A320010102
OS
     MARPAT 131:243180
IT
     244159-34-0P
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Patel

RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); BSU (Biological study, unclassified); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of arylketoenols as pesticides and herbicides)

RN 244159-34-0 CAPLUS

CN 2-Cyclohexen-1-one, 2-(4'-chloro-4-methyl[1,1'-biphenyl]-3-yl)-3-hydroxy-4,4-dimethyl- (9CI) (CA INDEX NAME)

GI

AB Title compds. [I; X = halo, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkoxy, haloalkenyloxy, NO2, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio; Z = (substituted) cycloalkyl, aryl, heteroaryl; W, Z = H, halo, alkyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO2, cyano; E = specified (substituted) dioxopyrrolyl, dioxofuryl, dioxothienyl, dioxopyrazolyl, dioxopyranyl, dioxocyclopentyl, etc., residues], were prepared Thus, II (Q = Br) was stirred with 4-trifluoromethoxyphenylboronic acid, Pd(PPh3)4, and Na2CO3 in dimethoxyethane/H2O at 80° to give II (Q = 4-C6H4OCF3). I at 0.1% gave 95-100% kill of Myzus persicae on cabbage leaves.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

=> log y COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 11.70 167.33 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -1.39 -1.39

STN INTERNATIONAL LOGOFF AT 11:53:03 ON 09 JUN 2004

in which

A, B,Q1, Q2, W, X, Y and Z are each as defined in Claim 1

are obtained when

ketocarboxylic esters of the formula (X)

10

in which

A, B,  $Q^1$ ,  $Q^2$ , W, X, Y and Z are each as defined above and

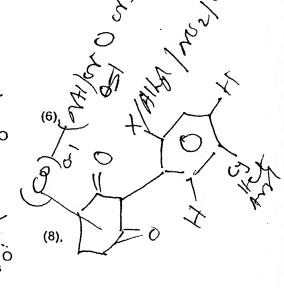
15

R<sup>8</sup> represents alkyl

are cyclized intramolecularly, if appropriate in the presence of a diluent and in the presence of a base,

20

(H) Compounds of the formula (I-8-a)



- $\begin{array}{c}
  A \\
  B \\
  Q^2
  \end{array}$ in which
  - A represents hydrogen, in each case optionally halogensubstituted alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, saturated or unsaturated, optionally substituted cycloalkyl in which optionally at least one ring atom is replaced by a heteroatom, or in each case optionally halogen-, alkyl-, halogenoalkyl-, alkoxy-, halogenoalkoxy-, cyano- or nitro-substituted aryl, arylalkyl or hetaryl,

10

5

B represents hydrogen, alkyl or alkoxyalkyl, or

15

A and B together with the carbon atom to which they are attached represent a saturated or unsaturated unsubstituted or substituted cycle which optionally contains at least one heteroatom,

20

D represents hydrogen or an optionally substituted radical selected from the series consisting of alkyl, alkenyl, alkinyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, saturated or unsaturated cycloalkyl in which one or more ring members are optionally replaced by heteroatoms, arylalkyl, aryl, hetarylalkyl or hetaryl or